



# California Regional Water Quality Control Board

## Santa Ana Region



Terry Tamminen  
Secretary for  
Environmental  
Protection

3737 Main Street, Suite 500, Riverside, California 92501-3348  
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<http://www.swrcb.ca.gov/rwqcb8>

PAH/AES A  
Arnold Schwarzenegger  
Governor

October 21, 2004

Commander  
(Mr. Jerry Dunaway, Code 06CM.JD)  
BRAC Environmental Coordinator  
Southwest Division, Naval Facilities Engineering Command  
1220 Pacific Hwy  
San Diego CA 92132-5190

SUBJECT: **CLOSURE OF UNDERGROUND STORAGE TANK (UST) CASE  
USTs 268, 18A AND 18B  
NORTH CORNER OF BERRY ROAD AND COPLAND STREET  
FORMER US MARINE CORPS AIR STATION TUSTIN  
CASE NO. 083003410T**

Dear Mr. Dunaway:

This letter confirms the completion of the site investigation, remedial action and groundwater monitoring which were required to mitigate the releases from the underground storage tanks formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

The soil was excavated in four phases. Approximately 22,668 tons of contaminated soil were excavated and treated in a thermal desorption unit. In addition, 328,500 gallons of groundwater were pumped from the excavation and treated before discharge to the storm drain. The excavation was backfilled with gravel, non-impacted overburden soil and treated soil.

Six groundwater monitoring wells were installed. A maximum of 870 micrograms/liter ( $\mu\text{g/l}$ ) of benzene was detected in one of the groundwater samples collected. Methyl tertiary butyl ether was not detected in any of the water samples collected. A second round of water samples was collected approximately two months later, and the maximum benzene concentration detected was 66  $\mu\text{g/l}$ .

Based on the information provided in your December 31, 2003, Final Site Assessment Report for Underground Storage Tank 268 and August 31, 2004, Site Closure Report, Underground Storage Tanks 268, 18A and 18B, and in consideration of the current land use, with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

*California Environmental Protection Agency*

The monitoring wells located at the site are required to be properly abandoned in accordance with the California Well Standards. In addition, all necessary permits from the appropriate agencies shall be obtained prior to decommissioning the monitoring wells. After the monitoring wells are properly abandoned, please submit all documentation to this agency.

Please telephone Patricia Hannon at (951) 782-4498, or send e-mail to [phannon@waterboards.ca.gov](mailto:phannon@waterboards.ca.gov) if you have any questions regarding this matter.

Sincerely,



Gerard J. Thibeault  
Executive Officer

Attachment: Case Closure Summary

cc w/ attachment: Mr. (Ram) Anantaraman Peddada, Dept. of Toxic Substances Control  
Ms. Deanna Dunbar, Southwest Division, Naval Facilities Engineering  
Command  
Mr. James Ricks, U. S. EPA, Region IX  
Ms. Arghavan Rashidi –Fard, Orange County Health Care Agency  
Mr. Dana Ogdon, City of Tustin  
Ms. Linda Dorn, Clean Water Prog., State Water Resources Control  
Board

# CASE CLOSURE SUMMARY

## Leaking Underground Fuel Tank Program

### I. Agency Information

DATE 10/18/2004

AGENCY NAME	California Regional Water Quality Control Board - Santa Ana Region	STAFF	Patricia Hannon
ADDRESS	3737 Main St. Suite 500	TITLE	Engineering Geologist
CITY/STATE/ ZIP	Riverside CA 92501-3348	PHONE	(951) 782-4498, main # 782-4130

### II. Case Information

SITE NAME	USTs 268, 18A and 18B			
LOCATION	Northern corner of Berry Road and Copland Street at Former US Marine Corps Air Station Tustin			
REGIONAL BOARD CASE #	083003410T	LOCAL AGENCY CASE #	NA	
RESPONSIBLE PARTIES		ADDRESS	PHONE NUMBER	
Attn: Jerry Dunaway		1220 Pacific Hwy	619-532-0975	
Southwest Division Naval Facilities Engineering Control		San Diego CA 92132-5190		
TANK NO.	SIZE IN GALLONS	CONTENTS	CLOSED IN PLACE/ REMOVED	DATE
UST 18A	1000	gasoline	removed	1984
UST 18B	1000	gasoline	removed	1984
UST 268	4500	gasoline	removed	12/17/1998

### III. Release and Site Characterization Information

SITE CHARACTERIZATION COMPLETE?		yes			
MONITORING WELLS INSTALLED?		yes	NUMBER	6	PROPER SCREEN INTERVAL? yes
DEEPEST GW DEPTH		30 ft		SHALLOWEST GW DEPTH	17 ft
GROUNDWATER, MOST SENSITIVE CURRENT USE:			municipal		GW FLOW DIRECTION west
DRINKING WATER WELL(S) AFFECTED?		no	AQUIFER NAME		Irvine Pressure
IS SURFACE WATER AFFECTED?		no	NEAREST SW NAME		Peters Canyon Wash
OFF-SITE BENEFICIAL USE IMPACTS (ADDRESSES/LOCATIONS):				none	
REPORT(S) ON FILE?		yes	WHERE IS/ARE REPORT(S) FILED?		R.W.Q.C.B. - Santa Ana Region
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL					
MATERIAL	AMOUNT	ACTION (TREATMENT, DISPOSAL)/ DESTINATION			DATE
TANK/PIPING	1 fiberglass UST and piping	Disposal to Erickson, Fontana			12/1998
FREE PRODUCT	none				
SOIL	20,818 tons	Treated on-site in a thermal desorption unit			12/1998-8/2000
	1850 tons	Treated off-site in a thermal desorption unit			1/2003-2/2003
GROUNDWATER	275,000 gal.	Treated on-site using granular activated carbon and discharged to the storm drain			Jan – April 1999
	53,000 gal.	Transported by truck to the GW treatment system at UST site 222 for treatment and discharged to the storm drain			Jan – Feb 2003

### III. Release and Site Characterization Information (Continued)

Maximum Document Contaminant Concentration - Before and After Cleanup				
CONTAMINANT	SOIL (mg/kg)		WATER (µg/L)	
	INITIAL	CURRENT	INITIAL	CURRENT
BENZENE	21	ND <2.9	870	34
TOLUENE	21	ND <2.9	75	<5
ETHYLBENZENE	67	ND <2.9	280	66
XYLENE	230	ND <8.8	600	35
MTBE	20	ND <5.9	<250	<10
Diisopropyl ether	62	ND <5.3	170	6.2
TPH- gasoline	4,500	69	6,800	2,000
TPH - diesel	6,100	ND <12	NA	NA

**COMMENTS REGARDING INVESTIGATION AND REMEDIATION**

This site originally contained two 1,000-gallon gasoline USTs. These tanks were removed prior to 1991 and replaced with a 4,500 gallon UST (UST 268). In December 1998, UST 268 was removed, soil samples were collected and gasoline-contaminated soil was found.

The soil was excavated in four phases. Approximately 22,668 tons of contaminated soil were excavated and treated in a thermal desorption unit. In addition, 328,500 gallons of groundwater were pumped from the excavation and treated before discharge to the storm drain. Confirmation samples were collected from floor and walls of the excavation. The analytical results of the soil samples was non-detect for benzene, toluene, ethyl benzene and xylenes. Very low concentrations of total petroleum hydrocarbons as gasoline were detected. The excavation was backfilled with gravel, non-impacted overburden soil and treated soil.

Six groundwater monitoring wells were installed. A maximum of 870 micrograms/liter (µg/l) of benzene was detected in one of the groundwater samples collected. Methyl tertiary butyl ether was not detected in any of the water samples collected. A second round of water samples was collected approximately two months later, and the maximum benzene concentration detected was 66 µg/l.

Based on the information provided in the December 31, 2003 Final Site Assessment Report for Underground Storage Tank 268 and August 31, 2004 Site Closure Report, Underground Storage Tank 268, 18A and 18B, this site is recommended for closure.

### IV. Closure

DOES COMPLETED CORRECTIVE ACTION PROTECT <i>EXISTING</i> BENEFICIAL USES PER REGIONAL BOARD BASIN PLAN?				yes	
DOES COMPLETED CORRECTIVE ACTION PROTECT <i>POTENTIAL</i> BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN?				yes	
MONITORING WELLS	6	NUMBER DECOMMISSIONED	0	NUMBER RETAINED	6
LIST ENFORCEMENT ACTIONS TAKEN			none		
LIST ENFORCEMENT ACTIONS RESCINDED			none		

### V. Regional Board Representative Data

STAFF	Patricia Hannon	TITLE	Engineering Geologist
SIGNATURE	<i>Patricia Hannon</i>	DATE	<i>Oct 18, 2004</i>
SUPERVISOR	Robert Holub	TITLE	Senior WRC Engineer
SIGNATURE	<i>Robert Holub</i>	DATE	<i>10-19-04</i>